

Seward County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/28/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 16 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Seward County economy.¹

These 16 sectors have a total direct output of approximately \$2.38 billion and support 3,438.7 jobs in Seward County. Running the model for all 16 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Seward County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional	Output ⁵	Output % of Gross Regional Product		
				Product ⁴		11 oaact		
Direct Effect	3,438.7	23.12%	\$355,638,096	31.14%	\$2,381,848,008	208.54%		
Indirect Effect	1,041.7	7.00%	\$86,996,782	7.62%	\$175,275,809	15.35%		
Induced Effect	908.2	6.11%	\$56,936,468	4.98%	\$102,572,282	8.98%		
Total Effect	5,388.6	36.24%	\$499,571,346	43.74%	\$2,659,696,100	232.87%		

As shown in the above table, agriculture, food, and food processing sectors support **5,388.6 jobs**, or **36.24%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$2.66 billion**, roughly **232.87%** of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 16 agriculture, food, and food processing sectors is approximately \$499.6 million, or 43.74% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 43.74% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

- 3 Value added = labor income + indirect business taxes + other property type income.
- $4\ GRP = final\ demand\ of\ households + governments\ expenditures + capital + exports\ -\ imports\ -\ institutional\ sales.$
- 5 Output = intermediate inputs + value added.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

In the top ten agriculture, food, and food processing sectors by employment, the animal, except poultry, slaughtering sector is the top employer with **2,823.7 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Seward County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Animal, except poultry, slaughtering	2,823.7	\$2,117,795,448		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	387.4	\$155,964,042		
Truck transportation	333.5	\$59,133,727		
Wholesale trade	141.4	\$35,166,269		
Limited-service restaurants	114.4	\$8,479,747		
Real estate	95.0	\$10,187,702		
Full-service restaurants	82.6	\$3,491,652		
Grain farming	75.5	\$78,714,990		
Services to buildings	72.8	\$3,536,253		
Child day care services	63.8	\$3,028,820		

The animal, except poultry, slaughtering directly contributes approximately **\$2.12 billion** to the Seward County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Animal, except poultry, slaughtering	2,823.7	\$2,117,795,448		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	387.4	\$155,964,042		
Grain farming	75.5	\$78,714,990		
Truck transportation	333.5	\$59,133,727		
Wholesale trade	141.4	\$35,166,269		
Owner-occupied dwellings	0.0	\$20,054,053		
Electric power transmission and distribution	8.5	\$10,827,301		
Real estate	95.0	\$10,187,702		
Monetary authorities and depository credit intermediation	50.8	\$8,979,925		
Limited-service restaurants	114.4	\$8,479,747		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Seward County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	1.7	\$5,904,771.33		
Grain farming	75.5	\$78,714,988.71		
Greenhouse, nursery, and floriculture production	1.6	\$233,023.52		
Cotton farming	1.9	\$638,653.52		
All other crop farming	23.3	\$5,115,951.54		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	387.4	\$155,964,035.03		
Dairy cattle and milk production	9.0	\$3,857,678.89		
Poultry and egg production	0.7	\$765,074.73		
Animal production, except cattle and poultry and eggs	1.3	\$390,384.29		
Commercial logging	0.5	\$20,936.52		
Animal, except poultry, slaughtering	2,823.7	\$2,117,795,410.16		
Bread and bakery product, except frozen, manufacturing	18.8	\$2,178,734.78		
Frozen cakes and other pastries manufacturing	1.2	\$179,223.87		
Tortilla manufacturing	21.7	\$5,380,859.38		
Veterinary services	15.3	\$1,203,736.66		
Landscape and horticultural services	55.1	\$3,504,498.72		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Seward County, the retail sector was omitted.